

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Sujata Banerjee et al.

Confirmation No.: TBD

Application No.: TBD

Examiner: TBD

Filing Date: Herewith

Group Art Unit: TBD

Title: REQUESTING A SERVICE FROM A MULTICAST NETWORK

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97 (c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☐ a \$180.00 fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
☐ Statement under 37 CFR 1.97(e)(1) or (2), and
☐ a \$180.00 fee set forth in 37 CFR 1.17(p).
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account **08-2025** the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account **08-2025** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

- ☐ I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: _____

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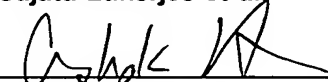
Typed Name:

Signature: _____

Respectfully submitted,

Sujata Banerjee et al.

By



Ashok K. Mannava

Attorney/Agent for Applicant(s)

Reg. No. **45,301**

Date: **March 11, 2004**

Telephone No.: **(703) 628-1461**

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR
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STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.

200311282-1

APPLICATION NO.

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REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
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	1L					
	1M					
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	1O					
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	S. Banerjee et al., "Scalable Application Layer Multicast", August 2002, In Proceedings of ACM SIGCOMM.
1R	S. Banerjee et al., "Construction of an Efficient Overlay Multicast Infrastructure for Real-Time Applications", April 2003, In Proceedings of INFOCOM.
1S	K. Calvert, et al., "Modeling Internet Topology", June 1997, IEEE Communications Magazine.

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1Q	M. Castro et al., "Scribe: A Large-Scale and Decentralized Application-Level Multicast Infrastructure", October 2002, IEEE JSAC, 20(8).
1R	Y. Chawathe, "Scattercast: An Adaptive Broadcast Distribution Framework", 2002, ACM Multimedia Systems Journal.
1S	Y. Chu et al., "A Case for End System Multicast", October 2002, IEEE JSAC, 20(8).

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	1Q	P. Francis, "Yoid: Your Own Internet Distribution", March 2001.
	1R	X. Fu et al., "CANS: Composable, Adaptive Network Services Infrastructure", March 2001, In Proceedings of USITS.
	1S	S. D. Gribble et al., "The Ninja Architecture for Robust Internet-Scale Systems and Services", March 2001, Computer Networks, 35(4).

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1Q	J. Jannotti et al., "Overcast: Reliable Multicasting With an Overlay Network", October 2002, In Proceedings of USENIX OSDI.
1R	J. Jin et al., "On Construction of Service Multicast Trees", May 2003, In Proceedings of IEEE ICC.
1S	J. Liebeherr et al., "Application-Layer Multicasting with Delaunay Triangulation Overlays", October 2002, IEEE JSAC, 20(8).

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1Q	T. Ng et al., "Predicting Internet Network Distance with Coordinates-Based Approaches", June 2002, In Proceedings of IEEE INFOCOM.
1R	V. Padmanabhan et al., "Distributing Streaming Media Content Using Cooperative Networking", May 2002, In Proceedings of ACM, NOSSDAV.
1S	D. Pendarakis et al., "ALMI: An Application Level Multicast Infrastructure", March 2001, In Proceedings of USENIX USITS.

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1Q	S. Ratnasamy et al., "A Scalable Content Addressable Network", August 2001, In Proceedings of ACM SIGCOMM.
1R	S. Ratnasamy et al., "Topologically-Aware Overlay Construction and Server Selection", June 2002, In Proceedings of IEEE INFOCOM.
1S	S. Ratnasamy et al., "Application-Level Multicast Using Content-Addressable Networks", November 2001, In Proceedings of NGC.

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1Q	A. Rowstron et al., "Pastry: Scalable, Distributed Object Location and Routing for Large-Scale Peer-to-Peer Systems", November 2001, In Proceedings of IFIP/ACM Middleware.
1R	S. Roy et al., "Application Level Hand-Off Support for Mobile Media Transcoding Sessions", May 2002, In Proceedings of ACM NOSSDAV.
1S	I. Stoica et al., "Chord: A Scalable Peer-to-Peer Lookup Service for Internet Applications", August 2001, In Proceedings of ACM SIGCOMM.

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	1Q	D. Xu et al., "Finding Service Paths in a Media Service Proxy Network", January 2002, In Proceedings of SPIE/ACM MMCN.
	1R	Z. Xu et al., "Receiver Initiated Just-in-Time Adaptation for Rich Media Distribution", November 2002, Technical Report HPL-2002-314R1, HP Laboratories.
	1S	Z. Xu et al., "Building Topology-Aware Overlays Using Global Soft-State", May 2003, In Proceedings of IEEE ICDCS.

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1Q	B. Zhang et al., "Host Multicast: A Framework for Delivering Multicast to End Users", June 2002, In Proceedings of IEEE INFOCOM.
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